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Application No.	Applicant(s)
09/483,542	ANTUMA, G. DOUGLAS
Examin r	Art Unit
Fred Ferris	2128
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DETAILED ACTION

This Office Action is responsive to applicant's amendment filed 3 September
 Applicants have cancelled claims 1-18. Amended claims 19-26 are now allowed over the prior art of record.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Michael Long on 29 November 2002.

In line 9 of claim 19 insert the following text between the word "code" and the word "for":

"embodied in the memory subsystem"

Line 9 of claim 19 should now read as follows:

"volume detailing code <u>embodied in the memory subsystem</u> for causing the processor to perform the steps of:"

Response to Arguments

3. Applicant's arguments filed with the amendment of 3 September 2004 have been fully considered and found to be persuasive.

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Regarding applicant's response to 112(1) rejection: The examiner withdraws the 112(1) written description rejection in view of applicant's amendment to the claims and arguments submitted 3 September 2004.

Regarding applicant's response to 102(b) and 103(a) rejections: The examiner withdraws the 102(b) and 103(a) rejections in view of applicant's amendment to the claims and arguments submitted 3 September 2004.

Drawings

4. Formal drawings are now required in this case since the pending claims have been allowed. The examiner withdraws previous objections to the informal drawings.

Allowable Subject Matter

5. Claims 19-26 are allowed over the prior art of record.

The following is an examiner's statement of reasons for allowance:

Per independent claim 19: Independent claim 19 includes limitations relating to a system for roof truss volume detailing by providing, positioning, and sectioning three dimensional roof truss volume models and providing an extended component profile if an installed component extends beyond selected points of interest. While these features are individually disclosed in the prior art, the prior art of record does not meet the conditions as suggested in MPEP section 2132, namely:

"The identical invention must be shown in as complete detail as is contained in the ... claim." Richardson v. Suzuki Motor Co., 868 F.2d 1226, 1236, 9 USPQ2d 1913,

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1920 (Fed. Cir. 1989). The elements must be arranged as required by the claim, but this is not an **ipsissimis verbis** test, i.e., identity of terminology is not required. **In re Bond**, 910 F.2d 831, 15 USPQ2d 1566 (Fed. Cir. 1990)."

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In particular, the prior art of record does not disclose features pertaining to the specific sequence of steps leading to sectioning three dimensional roof truss volumes at points of interest and providing a two dimensional roof truss profile that includes a component profile if the three dimensional component extends through the points of interest and subsequently designing roof trusses based on the roof truss profile in the context of the claims.

The closest prior art uncovered during examination discloses the following elements:

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<u>U.S. Patent 5,740,341 issued to Oota et al</u>: teaches a CAD system for detailing a **building structure** that allows design and **placement** and routing of **three-dimensional structural components** (including volume) such as piping and air conditioning **ducts** and considers **obstructions** with building structural bodies (trusses etc.) extending through a **point of interest.**

U.S. Patent 5,227,983 issued to Cox et al: teaches teaches a CAD method, system, and computer code, for designing and routing a building distribution system (sprinkler system plumbing) consisting of elements (components) representing HVAC duct work, piping, conduits, etc. and considers multiple dimensions, obstructions, and building element size (volume and segments). "OSCONCAD: A Model-Based CAD System with Integrated Computer Applications", F. Marir, Itcon, Vol. 3, July 1998 discloses a computer based interactive system for representing CAD construction and architectural design applications consisting of two and three dimensional building elements, shapes, volumes, and allows the visualization of various elements showing sectional views of buildings, related components, and their locations.

While the prior art of record discloses various elements of volume detailing and positioning a representation of a three dimensional component relative to a three dimensional roof truss volume, none explicitly disclose the <u>specific sequence of steps</u> leading to sectioning three dimensional roof truss volumes at points of interest and providing a two dimensional roof truss profile that includes <u>a component profile if the</u> three dimensional component extends through the points of interest and subsequently

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designing roof trusses based on the roof truss profile as now specifically recited in

independent claim 19. This feature renders the claimed invention non-obvious over the

prior art of record. Claims 20-26 are allowable as being dependent from independent

claim 19.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Conclusion

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Fred Ferris whose telephone number is 571-272-3778

and whose normal working hours are 8:30am to 5:00pm Monday to Friday. Any inquiry

of a general nature relating to the status of this application should be directed to the

group receptionist whose telephone number is 571-272-3700. If attempts to reach the

examiner by telephone are unsuccessful, the examiner's supervisor, Jean Homere can

be reached at 571-272-3780. The Official Fax Number is: (703) 872-9306

Fred Ferris. Patent Examiner

Simulation and Emulation, Art Unit 2128

U.S. Patent and Trademark Office

Randolph Building, Room 5D19

401 Dulany Street

Alexandria, VA 22313

Phone: (571-272-3778)

Fred.Ferris@uspto.gov

November 24, 2004

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